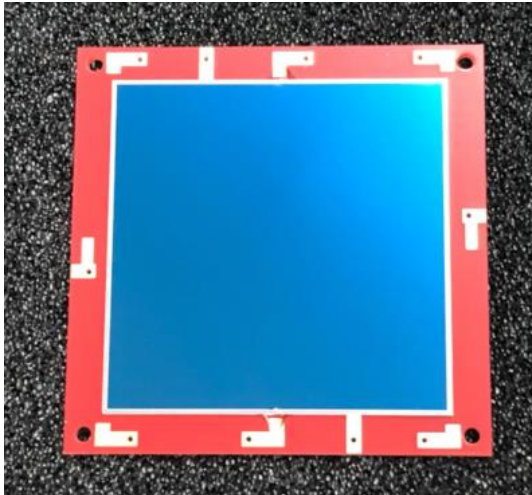


Silicon PIN Photodiode

OSD2500-IB



Description

The OSD2500-IB is high-output, high sensitivity silicon Photodiode mounted on FR-4 PCB board, permits wide Angular response.

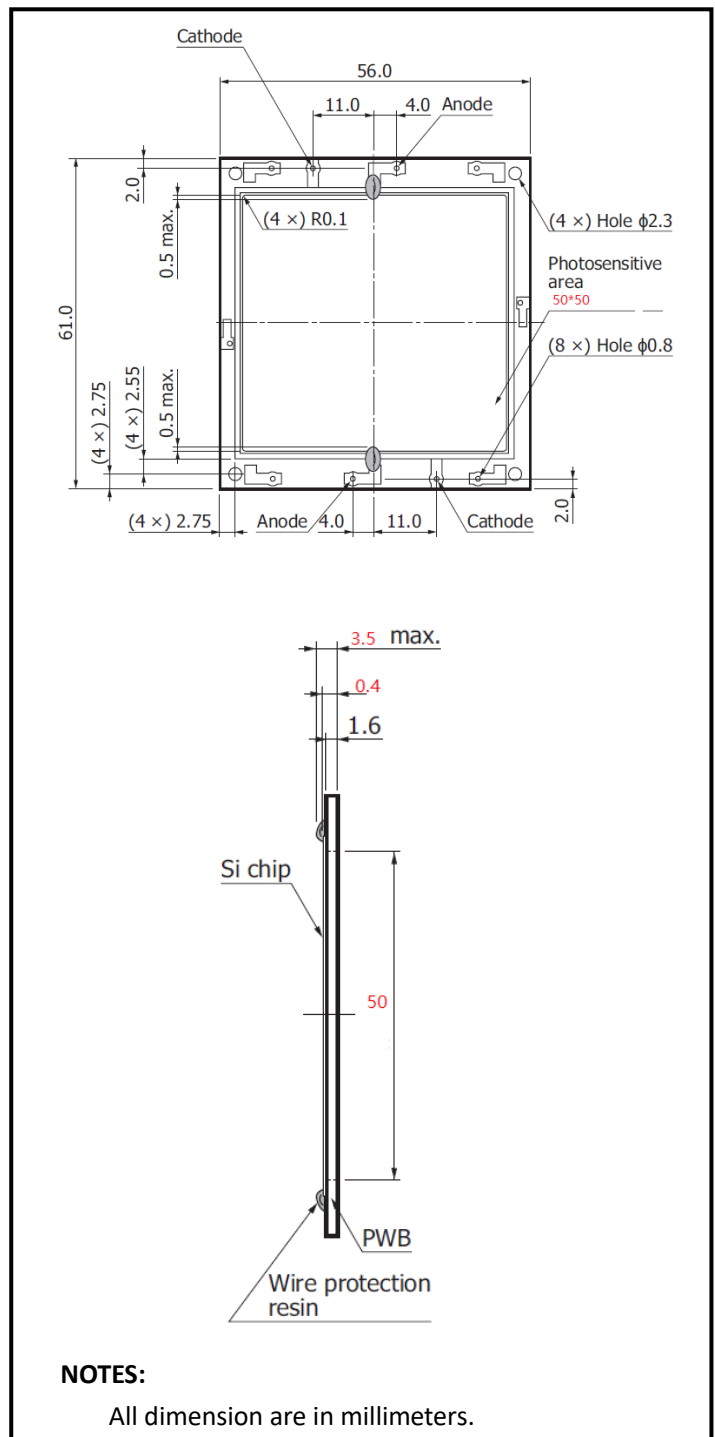
Features

- * Wide angular response
- * Large active area
- * High voltage tolerance

Applications

- * Analytical instruments
- * Optical measurement equipment
- * Precision photometry
- * Fluorescence detector
- * Heavy ions energy detection
- * $\Delta E/E$ detection

- * Medical equipment
- * Spectrophotometry/CT scan
- * X ray detection



Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject change without notice

OTRON ELECTRONIC TECHNOLOGY CO., LTD

TEL:+86-21-54971821

FAX:+86-21-54971823

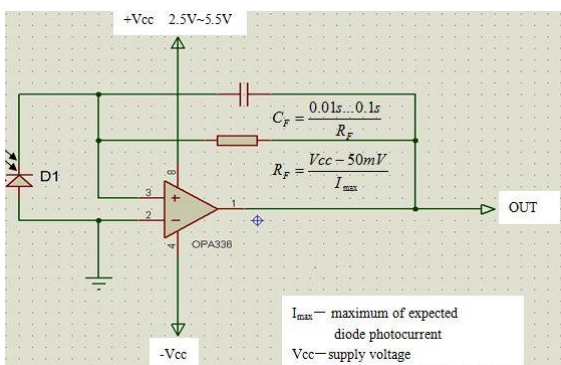
EMAIL: otron.sensor@gmail.com

<http://www.e-otron.com>

Absolute Maximum Ratings (Ta=25°C)

Parameter	Symbol	Condition	Min.	Typ.	Max.	Unit
Chip size				50*50		mm
Active area	A			48.72*48.72		mm
Dark current	I _d	VR=10mV		0.17		nA
		VR=60V		11	100	
Cutoff frequency	f _c			5		MHz
Temp coefficient of I _d	T _{CI_d}			0.18		times/°C
Reverse breakdown voltage	V _{(BR)R}	I _R =100μA Ev=0lx		60	240	V
Junction Capacitance	C _J	V _R =0V f=10kHz		151		nF
		V _R =10V f=10kHz		4.4		
Photo sensitivity	S _R	650nm		0.38		A/W
		940nm		0.64		
Spectral Application Range	λ _{range}		400		1100	nm
Spectral Response-Peak	λ _p			940		nm
Shunt resistance	R _{sh}	VR=10mV		0.58		GΩ
Rsh Temperature Coefficient	TC Rsh	Ev=100lx , VR=10mV		0.18		%/°C
Angular Resp 50% Resp Pt	θ _{1/2}			±60		Degrees

■ Typical application circuit



Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject change without notice

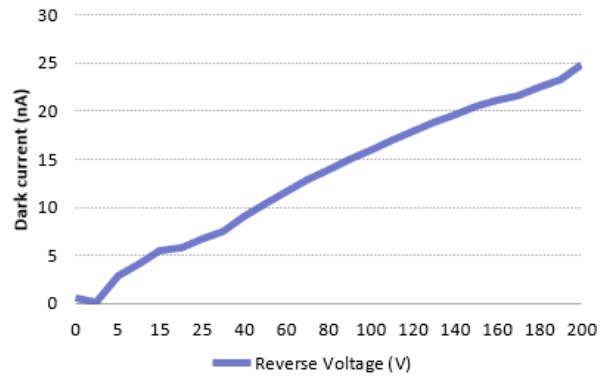
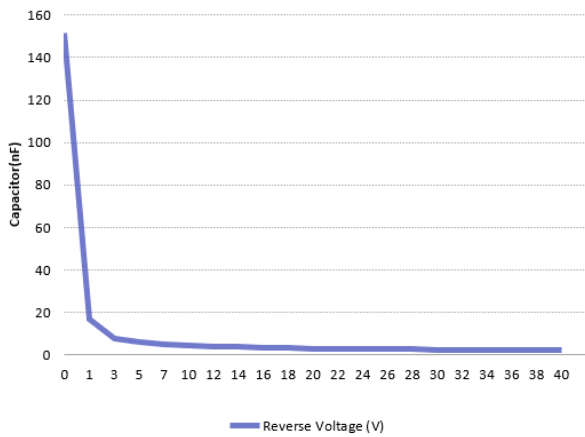
OTRON ELECTRONIC TECHNOLOGY CO., LTD

TEL:+86-21-54971821

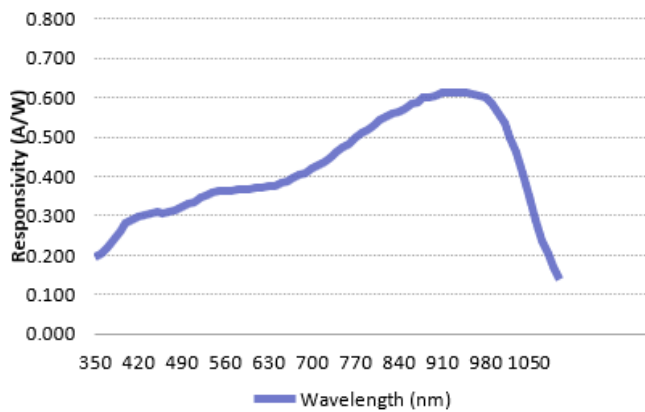
FAX:+86-21-54971823



■ Relative Junction Capacitance VS. Voltage ■ Dark current vs. Reverse voltage



■ Spectral response



Information in this technical datasheet is believed to be correct and reliable. However, no responsibility is assumed for possible inaccuracies or omission. Specifications are subject change without notice

OTRON ELECTRONIC TECHNOLOGY CO., LTD

TEL:+86-21-54971821

FAX:+86-21-54971823

EMAIL: otron.sensor@gmail.com

<http://www.e-otron.com>